HistoricBridges.org - National Bridge Inventory Data Sheet

2019 Inventory

The National Bridge Inventory contains data submitted by state transportion departments to the Federal Highway Administration in coded format.
Form Interface Design: www.historicbridges.org. Data Conversion Assistance By www.bridgehunter.com. None of the involved parties make any guarantee of accuracy.

Basic Information

Indiana [18]	Marion County [097]	Indianapolis [36000]	.2 MI E OF LAFAYETTE ROAD	39-47-19.57 = 39.788769	086-11-52.05 = -86.197792

4900207	Highway agency district: 3	Owner	City or Municipal Highway Agency [04]	Maintenance responsibility	City or Municipal Highway Agency [04]

Route	0	16TH STREET	Toll	On free road [3]	Features intersected: WHITE RIVER

Design - main	Concrete [1]	Design - approach		Kilometerpoint	0 km = 0.0 mi
5	Arch - Deck [11]	0	Other [00]	Year built: 1948	Year reconstructed: 2011
				Skew angle: 20	Structure Flared:
				Historical significance	Bridge is eligible for the NRHP. [2]

Total length	209.6 m = 687.7 ft	Length of maximum span	38.4 m = 126.0 ft	Deck width, out-to-out	21.6 m = 70.9 ft	Bridge roadway width, curb-to-curb	16.5 m = 54.1 ft
Inventory Route, Total Horizontal Clearance	16.5 m = 54.1 ft	Curb or sidewalk width - left	1.6 m = 5.2 ft	Curb or sidewalk width - right	1.6 m = 5.2 ft		

Deck structure type	Not applicable [N]
Type of wearing surface	Monolithic Concrete (concurrently placed with structural deck) [1]
Deck protection	
Type of membrane/wearing surface	

Weight Limits

Bypass, detour length	Method to determine inventory rating		Inventory rating	24.5 metric ton = 27.0 tons	
0.5 km = 0.3 mi	Method to determine operating rating		Operating rating	32.7 metric ton = 36.0 tons	
	Bridge posting	Equal to or above legal loads [5]	Design Load	M 18 / H 20 [4]	

Functional Details

Average Daily Traffic	29785	Average daily truck traffi	5 %	Year	2014	Future average daily traffic	36344	Year	2034

Road classification	Other Principal Arterial (Urban) [14]	Lanes on structure	4	Approach roadway width	20.4 m = 66.9 ft
Type of service on bridge	Highway-pedestrian [5]	Direction of traffic	2 - way traffic [2]	Bridge median	Closed median (no barriers) [2]
Parallel structure designation	No parallel structure exists. [N]				
Type of service under bridge	Waterway [5]	Lanes under structure	0	Navigation control	
Navigation vertical clearanc	0 = N/A	Navigation horizontal clearance	0 = N/A		
Minimum navigation vertical clearance, vertical lift bridge		Minimum vertical clearance over bridge roadway	99.99 m = 328.1 ft		
Minimum lateral underclearance reference feature	Feature not a highway or railroad [N]				
Minimum lateral underclearance on right	0 = N/A	Minimum lateral underclearance on left	0 = N/A		
Minimum Vertical Underclearance	0 = N/A	Minimum vertical underclearance reference feature	Feature not a highway or railroad [N]		
Appraisal ratings - underclearances	N/A [N]				

Repair and Replacement Plans

Type of work to be performed

Bridge rehabilitation because of general structure deterioration or inadequate strength. [35]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	2100000	Roadway improvement cost	450000
Length of structure improvement	178.9 m = 587.0 ft	Total project cost	3188000
Year of improvement cost estimate	2018		
Border bridge - state		Border bridge - percent responsibility of other state	
Border bridge - structure number			

Inspection and Sufficiency

Structure status	Open, no restriction [A]	Appraisal ratings - structural	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - superstructure	Fair [5]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - deck	Not Applicable [N]		
Scour	Bridge foundations determined to be stable for the assessed or calculated scour condition. [8]		
Channel and channel protection	Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly. [6]		
Appraisal ratings - water adequacy	Equal to present desirable criteria [8]	Status evaluation	
Pier or abutment protection		Sufficiency rating	49.9
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings			
Traffic safety features - transitions			
Traffic safety features - approach guardrail			
Traffic safety features - approach guardrail ends			
Inspection date	August 2018 [0818]	Designated inspection frequency	24 Months
Underwater inspection	Unknown [Y48]	Underwater inspection date	July 2015 [0715]
Fracture critical inspection	Not needed [N]	Fracture critical inspection date	
Other special inspection	Not needed [N]	Other special inspection date	